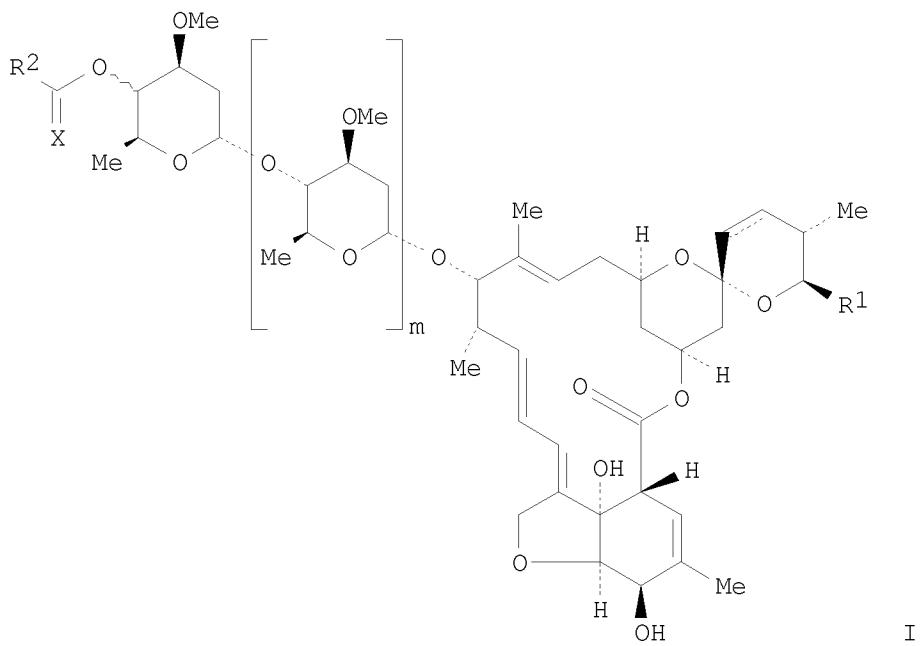


L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2005:216832 CAPLUS  
 DOCUMENT NUMBER: 142:275493  
 TITLE: Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides  
 INVENTOR(S): Murphy Kessabi, Fiona; Pitterna, Thomas; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre; Hueter, Ottmar Franz  
 PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.  
 SOURCE: PCT Int. Appl., 85 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021569	A1	20050310	WO 2004-EP9594	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1660510	A1	20060531	EP 2004-764568	20040827
EP 1660510	B1	20080402		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2007504113	T	20070301	JP 2006-524341	20040827
AT 391133	T	20080415	AT 2004-764568	20040827
ES 2307042	T3	20081116	ES 2004-764568	20040827
US 20080194498	A1	20080814	US 2006-568715	20060217
PRIORITY APPLN. INFO.:			GB 2003-20176	A 20030828
			WO 2004-EP9594	W 20040827

OTHER SOURCE(S): CASREACT 142:275493; MARPAT 142:275493  
 GI



**AB** The title compds. I wherein the bond between carbon atoms 22 and 23 is a single or double bond; m is 0 or 1; R1, is C1-C12alkyl, C3-C8cycloalkyl or C2-C12alkenyl; and either (A) R2 is NR3R4, and (1) X is O, wherein R3 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl, and R4 is, for instance, mono- to pentasubstituted C1-C12 alkyl, unsubstituted or mono- to pentasubstituted C3-C12 cycloalkyl; or (2) X is S, wherein R3 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl, and R4 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl; or (3) X is O or S, wherein R3 and R4 together are, for instance, a three- to seven membered alkylene or a four- to seven-membered alkenylene bridge; or (B) R2 is OR5, X is O or S, wherein R5 is, for instance, C1-C12 alkyl, mono- to pentasubstituted C1-C12 alkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in free form or in salt form, are prepared as insecticides and acaricides.

**IT**

1062324-28-0	1062324-29-1	1062324-30-4
1062324-41-7	1062324-42-8	1062324-48-4
1062324-49-5	1062324-56-4	1062488-97-4
1062489-00-2	1062489-01-3	1062489-24-0
1062489-25-1	1062489-34-2	1062489-35-3
1062489-36-4	1062489-39-7	1062489-41-1
1062489-45-5	1062489-48-8	1062489-49-9
1062489-50-2	1062489-69-3	1062505-18-3
1062505-49-0	1071165-22-4	1071165-57-5
1071166-40-9	1071166-81-8	1071167-24-2
1071168-14-3	1071168-15-4	1071168-44-9
1071168-64-3	1071168-84-7	1071169-16-8

RL: PRPH (Prophetic)

(Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides)